



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/782,969	02/20/2004	Hem P. Takiar	SAND-01004US1	7720
64948 7590 07/25/2007 VIERRA MAGEN/SANDISK CORPORATION 575 MARKET STREET SUITE 2500 SAN FRANCISCO, CA 94105			EXAMINER DINH, TUAN T	
			ART UNIT 2841	PAPER NUMBER
			MAIL DATE 07/25/2007	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

**Supplemental
Notice of Allowability**

Application No.

10/782,969

Examiner

Tuan T. Dinh

Applicant(s)

TAKIAR, HEM P.

Art Unit

2841

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the RCE filed on 04/17/07.
2. ☒ The allowed claim(s) is/are 52,53,55,56,58,60,62-67,69,70,73,80 and 83-85 (renumber claims are 1-19).
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date <u>06/16/07</u> . |
| 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date <u>04/24/07</u> | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

DETAILED ACTION

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 03/03/07 has been entered.

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Brian Marcus on 06/14/07.

The application has been amended as follows:

Cancel claim 82 without prejudice.

Claim 53, 55-56, 58, 60, 62, 84, and 85, change "A non-volatile memory card" to
- - The non-volatile memory card - -.

For clam 63, the current amended claim should be below:

63 (**second currently amended**) A non-volatile memory card, comprising:

a bottom surface including a first planar portion and a second planar portion residing in a different plane than the first planar portion;

a top surface opposite the bottom surface, the top surface having a raised portion; a bottom edge extending between the top and bottom surfaces; a top edge opposite the bottom edge; a pair of side edges extending between the top and bottom surfaces and the top and bottom edges, one side edge of the pair of said edges including first and second sections extending generally parallel to each other and a third section extending between the first and second sections and forming an oblique angle with each of the first and second sections, one of the first and second sections including a notch;

a set of contacts on said bottom surface, in the first planar portion and adjacent the top edge,

a circuit board in said card

a plurality of non-volatile storage elements enclosed within said card; and

passive electrical elements enclosed within said card, said passive electrical elements are positioned in said second portion; and

molding compound encapsulating the printed circuit board and plurality of non-volatile storage elements, the molding compound generally defining the top and bottom surfaces, the top and bottom edges and the pair of side edges;

test pins, exposed through a surface of the molding compound, for testing operation of the non-volatile storage elements;

a conformal coating removably covering the test pins.

For claim 80, the current amended claim should be shown below:

80, **(second currently amended)** A non-volatile memory card, comprising:

- a bottom surface;
- a top surface opposite the bottom surface, the top surface having a raised portion;
- a bottom edge extending between the top and bottom surfaces;
- a top edge opposite the bottom edge;
- a pair of side edges extending between the top and bottom surfaces and the top and bottom edges, one side edge of the pair of said edges including first and second sections extending generally parallel to each other and a third section extending between the first and second sections and forming an oblique angle with each of the first and second sections, one of the first and second sections including a notch;
- a set of contacts on said bottom surface, in the first planar portion and adjacent the top edge,
- a circuit board in said card;

molding compound encapsulating the printed circuit board and plurality of non-volatile storage elements, the molding compound generally defining the top and bottom surfaces, the top and bottom edges and the pair of side edges;

test pins, exposed through a surface of the molding compound, for testing operation of the non-volatile storage elements; and

a conformal coating removably covering the test pins, and

non-volatile storage elements enclosed within said peripheral card; and
a passive electrical component enclosed within said removable peripheral card, said
passive electrical element is positioned in said second portion.

Allowable Subject Matter

2. Claims 52-53, 55-56, 58, 60, 63-67, 69-70, 73, 80, and 83-85 are allowed
(renumber claims are 1-19).

The following is an examiner's statement of reasons for allowance:

Neither the references cited nor the cited references teach, suggest or obvious in
combination of the non-volatile memory card having molding compound encapsulating
the printed circuit board and plurality of non-volatile storage elements, the molding
compound generally defining the top and bottom surfaces, the top and bottom edges
and the pair of side edges; test pins, exposed through a surface of the molding
compound, for testing operation of the non-volatile storage elements; and a conformal
coating removably covering the test pins.

Any comments considered necessary by applicant must be submitted no later
than the payment of the issue fee and, to avoid processing delays, should preferably
accompany the issue fee. Such submissions should be clearly labeled "Comments on
Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the
examiner should be directed to Tuan T. Dinh whose telephone number is 571-272-
1929. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Reichard Dean can be reached on 571-272-1984. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Tuan Dinh
June 17, 2008.



TUAN T. DINH
PRIMARY EXAMINER